

jean-françois pambrun

researcher | engineer | software developer

about

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languages

bilingual french/english

programming

java, javascript
matlab, c, c++
linux, xml, git
html5, latex

standards

dicom, ihe, hl7
jpeg 2000, jpip

education

since 2011	Ph.D. in electrical engineering (in progress)	École de technologie supérieure (ÉTS)
	<i>improving medical image compression and transmission</i>	
2009-2010	M.Sc. in electrical engineering (fast-track[†])	École de technologie supérieure (ÉTS)
	<i>evaluating the diagnostic quality of lossy compressed images</i>	
2005-2009	B.ing. in electrical engineering	École de technologie supérieure (ÉTS)
	<i>information technologies and telecommunication specialization</i>	
2001-2005	DEC in computerized systems technology	Cégep de l'Outaouais

experience

2009-2014	lecturer	École de technologie supérieure (ÉTS)
	<i>software development environment (ele116)</i>	
	<i>image processing and analysis (ele747)</i>	
2009-2014	teaching assistants	École de technologie supérieure (ÉTS)
	<i>healthcare distributed systems (gts840)</i>	
	<i>software development environment (ele116)</i>	
	<i>image processing and analysis (ele747)</i>	
01-09 2009	software developer	CAE inc.
	<i>head-up display simulation for military flight simulators</i>	
2006-2008	research assistant	École de technologie supérieure (ÉTS)
	<i>implementation of a standard compliance validation tool for hl7v3</i>	
	<i>implementation and evaluation of a medical image streaming platform</i>	

awards

2014	SIIM annual meeting best scientific poster	500\$
2011	NSERC doctoral Alexander-Graham-Bell scholarship	35,000\$/yr
2011	ÉTS excellence graduate student scholarship	20,000\$/yr
2011	FRQNT doctoral research scholarship	20,000\$/yr
2009	FRQNT master's research scholarship	15,000\$/yr
2006	NSERC undergraduate student research awards	4,500\$

volunteer work

since 2013	NPO board member	Association étudiante de l'ÉTS
	<i>vice-president of services</i>	
	<i>academic commission student representative</i>	
	<i>disciplinary committee student representative</i>	

[†] not a member of the OIQ

[‡] allows doctoral admission without obtaining the master's degree

publication

articles in peer-reviewed journals

Computed Tomography Image Compressibility and Limitations of Compression Ratio-Based Guidelines

Pambrun J.F. Noumeir R.

Journal of Digital Imaging, Springer Science, 2015

Teaching DICOM by Problem Solving.

Noumeir R. Pambrun J.F.

Journal of Digital Imaging, Springer Science, 2012

Streaming of medical images using JPEG2000 interactive protocol

Pambrun J.F. Noumeir R.

International Journal of Innovative Computing and Applications. 2012

Using JPEG 2000 Interactive Protocol to Stream a Large Image or a Large Image Set

Noumeir R. Pambrun J.F.

Journal of Digital Imaging, Springer Science, 2010

international peer-reviewed conferences/proceedings

Limitations of the SSIM quality metric in the context of diagnostic imaging(accepted)

Pambrun J.F. Noumeir R.

IEEE International Conference on Image Processing (ICIP), 2015

VOI-Based JPEG 2000 Compression for Medical Applications(submitted)

Pambrun J.F. Noumeir R.

IEEE International Conference on Visual Communications and Image Processing (VCIP), 2015

Kurtosis Constrained Image Compression for Medical Applications(submitted)

Pambrun J.F. Noumeir R.

IEEE International Conference on Visual Communications and Image Processing (VCIP), 2015

Compressibility variations of JPEG2000 compressed computed tomography

Pambrun J.F. Noumeir R.

IEEE International Conference of the Engineering in Medicine and Biology Society (EMBC), 2013

Learning DICOM by solving real clinical problems

Noumeir R. Pambrun J.F.

IEEE-EMBS International Conference on Biomedical and Health Informatics, 2012

Perceptual quantitative quality assessment of JPEG2000 compressed ct images with various slice thicknesses

Pambrun J.F. Noumeir R.

IEEE International Conference on Multimedia and Expo, 2011

Interoperability testing of integration profiles based on HL7 standard version 3

Pambrun J.F. Noumeir R.

IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Hands-on Approach for Teaching HL7 version 3

Noumeir R. Pambrun J.F.

IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Streaming of Medical Images Using JPEG 2000 Interactive Protocol

Noumeir R. Pambrun J.F.

IEEE International Conference on Systems, Signals and Image Processing. 2010

Interoperability Testing Software for Sharing Medical Documents and Images

Berube R, Pambrun J.F, Noumeir R.

IEEE International Conference on Internet and Web Applications and Services. 2010

Images within the Electronic Health Record

Noumeir R. Pambrun J.F.

IEEE International Conference on Image Processing. 2009